

50X1-HUM

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF ESPIONAGE ACT 50 U. S. C. 31 AND 32, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

NEW SOVIET BOOKS, PUBLISHED IN 1950,
ON ELECTRICITY, ELECTRICAL ENGINEERING, AND POWER ENGINEERING

- Discusses the problem of increasing the static stability of synchronous machines in the transmission of ac power over very long distances by regulating the excitation according to slip deviation. The book is written for engineers working in the field of systems regulation.

3. "Technology of Treating Parts of Wire Communications Equipment" (Tekhnologiya obrabotki detaley apparatov provolochnoy svyazi), D. I. Prizent, Gosenergoizdat, 464 pp plus insert, R 23.90.

4. "Radio Engineering: Transport Communications" (Radiotekhnika: Transportnaya Svyaz'), P. N. Ramlau, Transzheldorizdat, 332 pp, R 35.00 (second revised edition).

5. "Yablochkov," L. Rakhmanov, Detgiz, 84 pp, R 3.00.

- The book has 11 chapters treating the following subjects: starting and stopping of electric machines and units, connecting in reserve equipment, repeated reclosing of electric transmission lines, synchronization of generators,

- 1 -

- 1 -

		CLASSIFICATION		<u>CONFIDENTIAL</u>		CONFIDENTIAL	
STATE	<input checked="" type="checkbox"/>	NAVY	<input checked="" type="checkbox"/>	NSRB		DISTRIBUTION	
ARMY	<input checked="" type="checkbox"/>	AIR	<input checked="" type="checkbox"/>	FBI			

CONFIDENTIAL ~~CONFIDENTIAL~~

50X1-HUM

regulation of voltage and reactive power of generators, regulation of frequency and active power of generators, dropping of the load and isolation of electric power systems, and the use of telemechanics equipment in the automatization of electric power systems. Each chapter contains appropriate examples and lists questions for self-examination. The book should be useful for students specializing in this field of engineering, and for engineers working in the automatization of power systems.

7. "Introduction to the Theory of Oscillations" (Vvedeniye v teoriyu kolebaniy), S. P. Strelkov, Gostekhizdat, 344 pp, R 9.85.

The book consists of two parts. The first part (eight chapters) deals with oscillations of systems having one degree of freedom and, in particular, natural oscillations of linear systems and of nonlinear conservative systems, forced oscillations of linear systems, elements of the theory of recording instruments, some applications of the theory of resonance in radio engineering, forced oscillations in very simple systems with nonlinear elements, parametric oscillations, and self-excited oscillations. The second part (three chapters) examines the oscillations of linear systems with many degrees of freedom and, in particular, the oscillations of systems with two degrees of freedom, oscillations of linear systems with many degrees of freedom, and oscillations in systems with distributed parameters. The introduction gives a short review of the historical development of the theory of oscillations. The book was written for those desiring to make a serious study of the theory of oscillations.

8. "Calculation and Design of Electromagnetic Relays" (Raschety i konstruktsiya elektromagnitnykh rele), F. A. Stupel', Gosenergoizdat, 311 pp, R 11.00.

This book, an authorized text for higher educational institutions having electrical engineering specialties, is the second part of the author's work published in 1948 as "Relays for Protection and Automatic Control" (Rele zashchity i avtomatiki). The first section of the book deals with components and parts of relays; the second gives the fundamental relations for design; and the third includes designs of dc and ac systems and of polarized relays. The text contains many tables and much reference material necessary for calculation and design.

9. "Lectures for the Course, 'Electrical Materials Studies'" (Lektsii po kursu "Elektromaterialovedeniye"), Issue II-A, B. M. Tareyev, All-Union Power Engineering Correspondence Course, 32 pp, free.

Deals with the electrical properties of dielectrics.

10. "Electric Drive for Printing Machines" (Elektroprivod poligraficheskikh mashin), K. V. Urnov, Gizlegprom, 312 pp, R 11.00.

11. "Filters of Symmetrical Components" (Fil'try simmetrichnykh sostavlyayushchikh), V. L. Fabrikant, Gosenergoizdat, 276 pp, R 17.50.

Formulates fundamental relations and parameters of filters for relay protection. Develops indexes for filters which make possible their comparison. Classifies filters and determines parameters and properties of filters of the various classes and groups. Gives a method of calculating filters. Examines problems of regulation and compensation of filters. The book includes an adequate number of examples. Three appendices deal with the following problems: design of induction coils for filters; relations and parameters of negative-sequence voltage filters; and determination of properties of positive-sequence voltage filters for a change in frequency.

12. "Design of Cables, Conductors, and Cords" (Raschet konstruktsiy kabeley, provodov i shnurov), A. F. Shenger, Gosenergoizdat, 152 pp, R 10.50.

- 2 -

CONFIDENTIAL ~~CONFIDENTIAL~~

CONFIDENTIAL **CONFIDENTIAL**

50X1-HUM

The book sets forth methods for computing the various elements of cables, conductors, and cords (twisted strands, winding with tape and threads, cord and paper insulation, braiding, delta-asbestos insulation, enamel insulation, lead sheathing, armored cables, etc.). A number of reference tables are appended.

13. "Frequency Meters and Equipment for Testing Them" (Chastotomery i ustanovki dlya ikh proverki), Yu. M. El'kind, Gosenergoizdat, 184 pp, R 10.50.

- E N D -

- 3 -

CONFIDENTIAL **CONFIDENTIAL**